SaniTite® HP Pipe

SaniTite HP Pipe 300-1500 mm for Storm & Sanitary Sewers

Certified to CSA B182.13

SaniTite HP (High Performance) couples advanced polypropylene resin technology with a proven 300-750 mm (12”-30”) dual wall and exclusive 750-1500 mm (30”-60”) triple wall profile design for superior performance and durability. SaniTite HP meets and exceeds typical standards for pipe stiffness and joint integrity. When specifying pipe per CSA B182.13 on a gravity-flow sanitary sewer project, you are specifying the industry’s most stringent performance requirements.

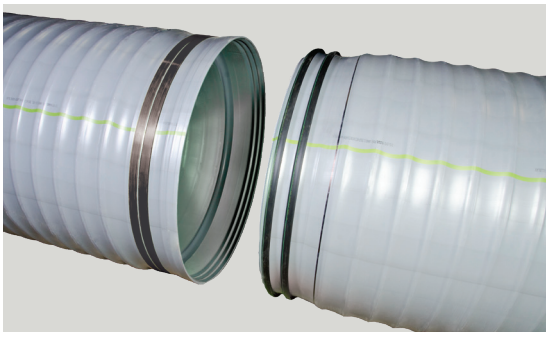
Advanced Construction

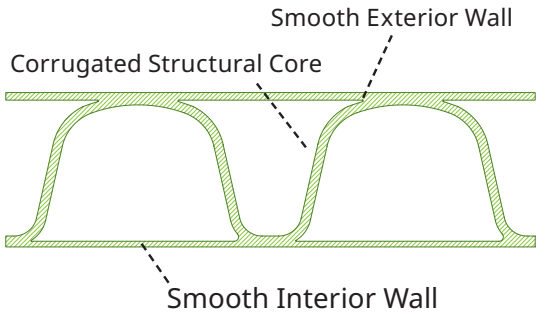
- Standard 300-1500 mm (12”-60”) diameters
- Varied lengths available - 4.0 m (13’), 5.0 m (16.3’) and 6.1 m (20’)
- Redundant double gasketed joints
- Inert material
- Minimum 100 kPa (15.0 psi) joint performance as per CSA B182.13 and ASTM D3212
- Industry standards for manhole connections, testing and installation

Superior Polypropylene Material

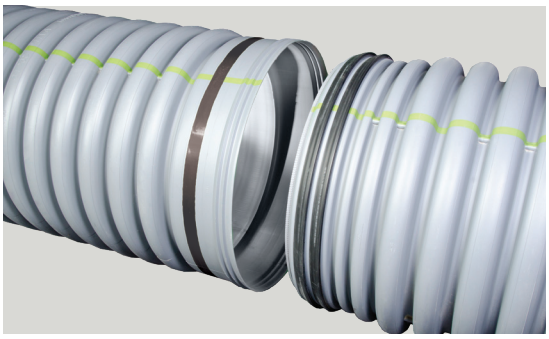
Made from an engineered impact modified co-polymer compound, the superior strength and material properties of polypropylene offer robust pipe stiffness, excellent handling characteristics, and long service life when compared to traditional sanitary sewer products. It is chemically resistant to hydrogen sulfide gas and sulfuric acid concentrations typical of sanitary sewers to provide superior durability and performance. The unique light grey resin color provides superior UV resistance as well as improving the pipe’s interior visibility during post-installation inspection.

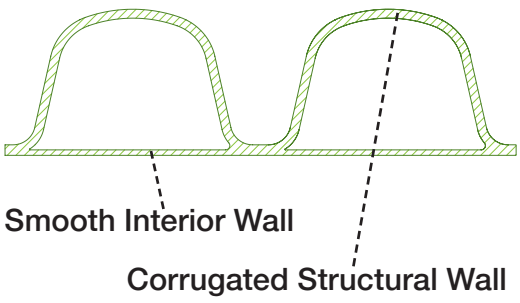
Triple Wall Design





Dual Wall Design



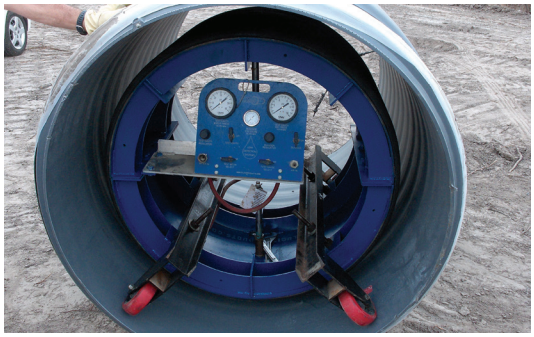


Superior Joint Performance

SaniTite HP pipe has a patented extended, reinforced bell with polymer composite bands and dual gaskets that add an additional factor of safety within each joint. The SaniTite HP joint performance is certified to meet or exceed the CSA Standard B182.13 requirements (100 kPa) in accordance with ASTM D3212. SaniTite HP is tested to 103.4 kPa (15 psi) to provide additional redundancy and factor of safety for critical sanitary sewer installations.

In the field, each section of SaniTite HP may be tested by a low pressure air test, according to ASTM F1417, a commonly used standard which specifies that 24.1 kPa (3.5 psi) air pressure be held for a specified length of time based upon pipe diameter and length of run.

Where an infiltration/exfiltration test is preferred, ASTM F2487 specifies a simplistic method of verifying proper joint performance.



Joint Isolation Test

Standard Tap Connections

Inserta Tee lateral connections are compatible with SaniTite HP. Inserta Tee are available from 50-600 mm (2”-24”) and will fit any mainline pipe diameter.

Inserta Tee Tap

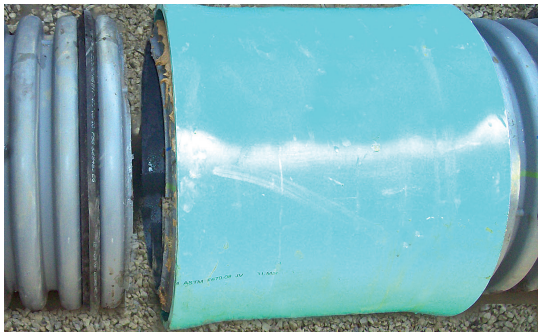
Standard Repair Couplers

Testable repair couplers are available and include stainless steel restraint bands.

Diameter Range

SaniTite HP meeting CSA B182.13 is currently manufactured in 4 m (13’) or 6.1 m (20’) lengths for diameters 300-1200 mm (12”-48”). The 1500 mm (60”) diameter is manufactured in 5 m (16.3’) and 6.1 m (20’) lengths. The 6.1 m (20’) lengths aid in speed of installation and reduce the total number of joints. However, the 4 m (13’) lengths are complimentary for deeper projects where trench box conditions require a shorter pipe.

Repair Coupler



PVC Sleeve Coupler

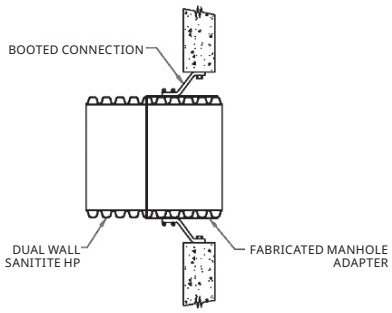
Standard Structure Connections

Sewer projects require superior watertight performance combined with a flexible connection solution that can withstand the rigor of installation. To meet varying regional requirements, ADS offers a wide selection of connection options to be used with independent standard resilient connectors meeting ASTM C923, such as A-Lok® and Press Seal®.

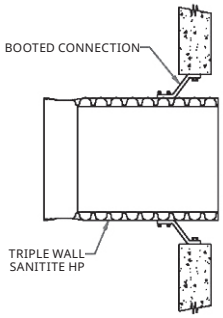
When connecting SaniTite HP pipe to a manhole, a smooth exterior surface on the pipe is required. ADS offers three ways to adapt dual wall pipe to these manhole connectors: a corrugated pipe adapter, a PVC Manhole Adapter or a polypropylene manhole sleeve adapter. For triple wall pipe, commonly used manhole connectors can connect directly to the pipe with no additional fittings or adapters.

Care should be taken to knife or shovel backfill material under and around haunch area of pipe.

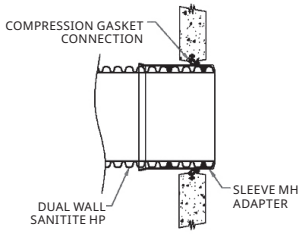
Boot Connection to Dual Wall Pipe



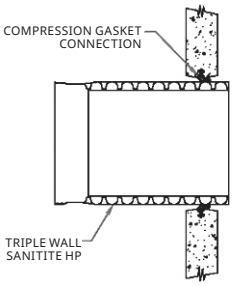
Boot Connection to Triple Wall Pipe



Compression Gasket Connection to Dual Wall Pipe



Compression Gasket Connection to Triple Wall Pipe



SaniTite HP 300-1500 mm Pipe Specification

Scope

This specification describes 300 to 1500 mm (12- through 60-inch) SaniTite HP pipe for use in gravity-flow storm and sanitary sewer applications.

Pipe Requirements

ADS 300-750 mm (12" – 30") SaniTite HP dual wall pipe shall have a smooth interior and annular exterior corrugations; 750-1500 mm (30"-60") SaniTite HP triplewall pipe shall have smooth interior and exterior surfaces with annular inner corrugations.

- 300-1500 mm (12- through 60-inch) pipe shall be certified by an accredited certification body to meet CSA B182.13
- 300-1500 mm (12- through 60-inch) pipe shall have a minimum pipe stiffness of 320 kPa (46 pii) when tested in accordance with ASTM D2412
- Manning's "n" value for use in design shall be 0.012.

Joint Performance

Pipe shall be joined with a gasketed integral bell & spigot joint meeting the requirements of CSA B182.13.

300 to 1500 mm (12"-60") shall be watertight according to the requirements of CSA B182.13. Spigot shall have two gaskets meeting the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gaskets are free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

300 to 1500 mm (12"-60") diameters shall have a reinforced bell with a polymer composite band installed by the manufacturer.

Fittings

Fittings and connections shall provide a watertight connection according to the requirements of CSA B182.13. Fitting joints shall meet the watertight joint performance requirements of CSA B182.13.

Field Pipe and Joint Performance

To assure watertightness, field performance verification may be accomplished by testing in accordance with ASTM F1417 or ASTM F2487. Appropriate safety precautions must be used when field-testing any pipe material.

Material Properties

Polypropylene compound for pipe and fitting production shall be an impact modified copolymer meeting the material requirements of CSA B182.13.

Installation

Installation shall be in accordance with CSA B182.11 and ADS recommended installation guidelines, with the exception that minimum cover in traffic areas for 300 to 1200 mm (12"-48") diameters shall be 0.3 m (one foot) and for 1500 mm (60") diameter the minimum cover shall be 0.6 m (two feet) in single run applications. Backfill for minimum cover situations shall consist of Class 1 or Class 2 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.05C.

Pipe Dimensions

Nominal Diameter mm (in)	300 (12)	375 (15)	450 (18)	600 (24)	750 (30)	900 (36)	1050 (42)	1200 (48)	1500 (60)
Average Pipe I.D. mm (in)	307 (12.1)	378 (14.9)	457 (18.0)	612 (24.1)	765 (30.1)	907 (35.7)	1062 (41.8)	1201 (47.3)	1506 (59.3)
Average Pipe O.D.* mm (in)	368 (14.5)	447 (17.6)	538 (21.2)	711 (28.0)	902 (35.5)	1054 (41.5)	1199 (47.4)	1374 (54.1)	1705 (67.1)

* O.D. values listed above are NOT for manhole connector sizing. See ADS Standard Detail 205A-F for the recommended manhole connector based on product and diameter.

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